DIAMOND PLATE®  SAE 10W-30 API CK-4 ENGINE OIL

**DURAGARD® DIAMOND PLATE® SAE 10W-30 API CK-4 ENGINE OIL** is an extreme performance (HTHS) high-temperature, high-shear viscosity synthetic blend oil formulated to meet the significantly improved specifications for 2017 and newer engines while being fully compatible for 2016 and prior engines that previously used API CJ-4. API CK-4 will deliver more oxidization protection for hotter, heavy-duty engines, minimizing acid formation, deposits and viscosity increase, promoting reduced wear, improved shear stability, greater oxidation stability, and foam prevention.

**DURAGARD® DIAMOND PLATE® SAE 10W-30 API CK-4 ENGINE OIL** is specifically engineered for use in mixed fleets, gasoline and diesel. CK-4 has a select additive package for exceptional performance at high temperatures and heavy loads with improved engine protection over previous CJ-4 formulas. The advance in oil technology standards establishes an oil quality specification that helps protect today and tomorrow diesel engines.

**DURAGARD® DIAMOND PLATE® SAE 10W-30 API CK-4 ENGINE OIL** is a direct replacement for CJ-4 using the same viscosity grades in Synthetic or Synthetic Blend oil types providing protection for all future engine designs, while improving protection of current and previous engines. CK-4 and CJ-4 can be mixed and should have no detrimental impact to engines. However, it is recommended to completely change over to CK-4 oil by using a hot drain of the CJ-4 oil to help minimize residual oil and achieve full benefits of the new oil. Fleets using CJ-4 should implement a secondary storage for CK-4 or completely empty a CJ-4 tank before filling with Duragard® Diamond Plate® SAE 10W-30 API CK-4 Engine oil.

**Customer Benefits with DURAGARD® DIAMOND PLATE PROTECTION®**

* Meets or Exceeds warranty requirements of engine manufacturers that require a type API CK-4/SM premium synthetic blend SAE 10W-30 motor oil.
* Exceeds performance of current API CJ-4 oils.
* (HTHS) High-temperature, High-shear viscosity.
* Improved shear stability
* More oxidization protection for hotter, heavy-duty engines
* Minimizes acid formation
* Reduced deposits
* Extended drain intervals
* Backwards compatible for all engines currently requiring CJ-4
* Meets current 2017 and newer specifications requiring CK-4
* Meets Ford’s stringent 2017 and newer WSS-M2C171-F1 specification.
Application Specifications:

**DIAMOND PLATE® 10W-30 API CK-4 ENGINE OIL**
This product meets, or exceeds the requirements similar to the following manufacturers and global specifications:

### 2017 and Newer Compatibility
- **API CK-4/SM**
- Cummins 20086
- Detroit Diesel 938K222
- Ford WSS-M2C171-F1
- Mack EOS-4.5
- MAN 3575
- MTU 2.1
- Renault RLD-4
- Volvo VDS-4.5

### 2016 and Prior Backwards Compatibility
- **API CJ-4, CI-4 PLUS, CI-4, CH-4, CG-4, CF-2, CF**
- ACEA E7, E4, E5, E3, E2
- Agco (Deutz Allis)
- Allison C-4
- CAT ECF-3, ECF-2, ECF 1a
- Cummins CES 20081, CES 20077 and 20076
- Detroit Diesel 93K218, 93K215, 93K214
- Ford WSS-M2C171-E
- Global DHD-1
- JASO DH-2
- MAN 3575
- Mercedes-Benz p228.31, p229.3
- Mack EO-O Prem Plus, EO-N Prem Plus 03, EO-M Plus, EO-M
- Renault RLD-3
- Volvo VDS-3, VDS-4

**Product Containers Available:**
- Bulk * 55 gal.
- * 30 gal.
- * 5 gal. pails
- * 2.5 gal/2pk

**Typical Physical Specifications:**

**SAE Grade 10W-30**

<table>
<thead>
<tr>
<th>INSPECTION INFORMATION</th>
<th>TEST METHOD</th>
<th>TYPICAL VALUE</th>
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<tbody>
<tr>
<td>Gravity, °API</td>
<td>ASTM D287</td>
<td>32.03</td>
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<tr>
<td>Specific Gravity @60°F (15.6°C)</td>
<td>ASTM D4052</td>
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<tr>
<td>Viscosity @ 40°C cSt</td>
<td>ASTM D445</td>
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<td>Viscosity @ 100°C cSt</td>
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<td>Viscosity Index</td>
<td>ASTM D2270</td>
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<tr>
<td>Pour Point (°C)</td>
<td>ASTM D5950</td>
<td>-39 °C (-38 °F)</td>
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<tr>
<td>Cold Cranking Simulator at (°C), cP</td>
<td>ASTM D5293</td>
<td>4934 (-25)</td>
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<tr>
<td>High Temperature/ High Shear Vis at 150°C, cP</td>
<td>ASTM D5481</td>
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<tr>
<td>Noack Volatility, % loss</td>
<td>ASTM D6375</td>
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<tr>
<td>Color</td>
<td>ASTM D1500</td>
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<tr>
<td>Zinc, wt. %</td>
<td>ASTM D5185</td>
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<tr>
<td>Phosphorus, wt. %</td>
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<tr>
<td>Calcium, wt. %</td>
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<td>Sulfur, wt. %</td>
<td>ASTM D4951</td>
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<tr>
<td>Magnesium, wt. %</td>
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<tr>
<td>Molybdenum, wt. %</td>
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<tr>
<td>Sulfated Ash, wt. %</td>
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<td>Nitrogen, wt. %</td>
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<td>Pumping Viscosity at (°C), cP</td>
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<tr>
<td>TBN, mgKOH/g</td>
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Typical test data average values only, minor variations which do not affect product performance are to be expected during normal manufacturing.

READ ENTIRE SDS BULLETIN FOR HANDLING AND SAFETY INFORMATION

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